

Data Analysis

Notes

Learning Objective: In writing, SWBAT identify and interpret data from different types of graphs using academic language.

<http://www.brainpop.com/math/dataanalysis/graphs/>

Data table

a chart showing information in numbers or words

Kind of Measurement	Base Unit	Other Units
length or distance	meter (m)	kilometer (km) = 1000 meters centimeter (cm) = .01 meters millimeter (mm) = .001 meters
mass	gram (g)	kilogram (kg) = 1000 grams
volume	liter (L)	milliliter (mL) = .001 liters

Graph

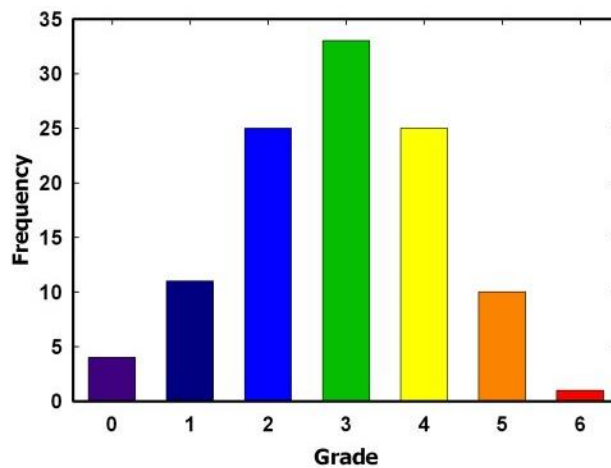
a diagram that shows the relationships between two or more things

Types of graphs

- bar graph
- line graph
- pie chart

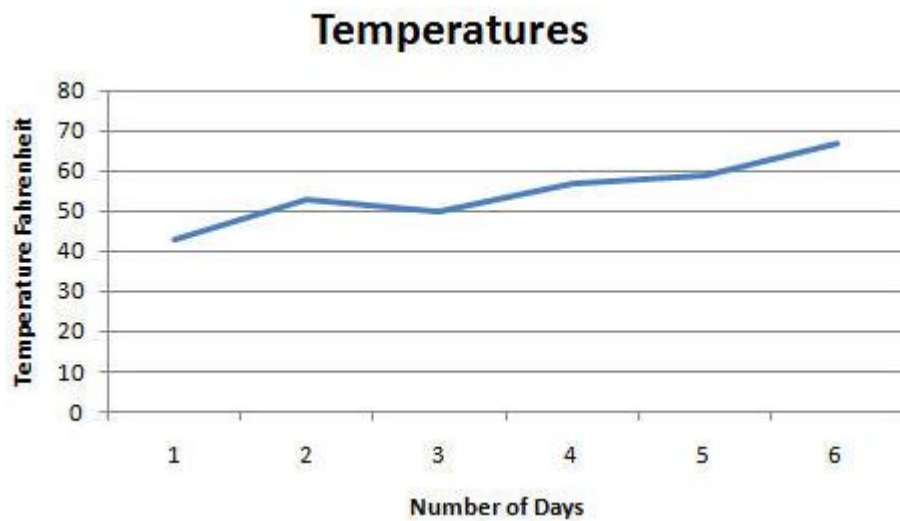
Bar graph

a graph that shows changes in size, value or rate of something



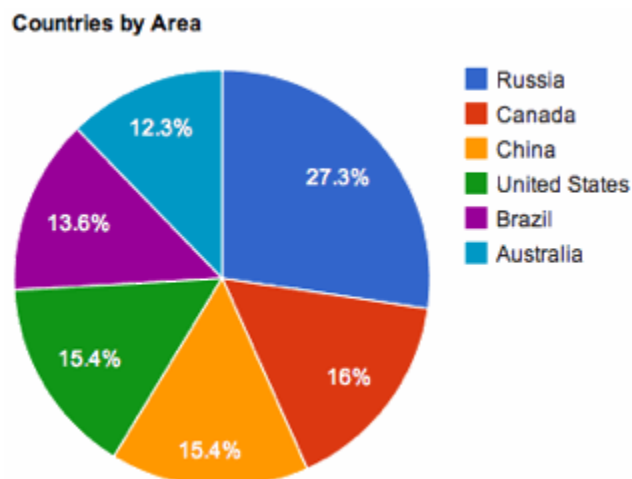
Line graph

a graph that uses lines to show changes in data over time



Pie chart

a graph that compares different parts of a whole

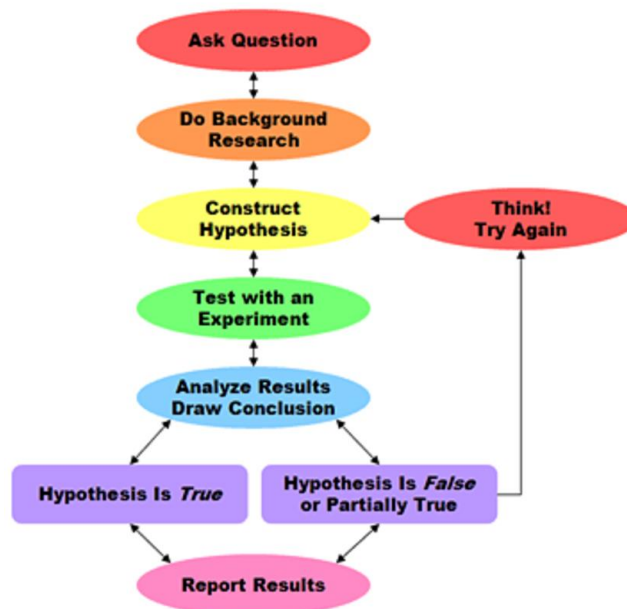


Learning Objectives: In writing, SWBAT identify and interpret data from flow charts and Venn diagrams using academic language.

Flowchart

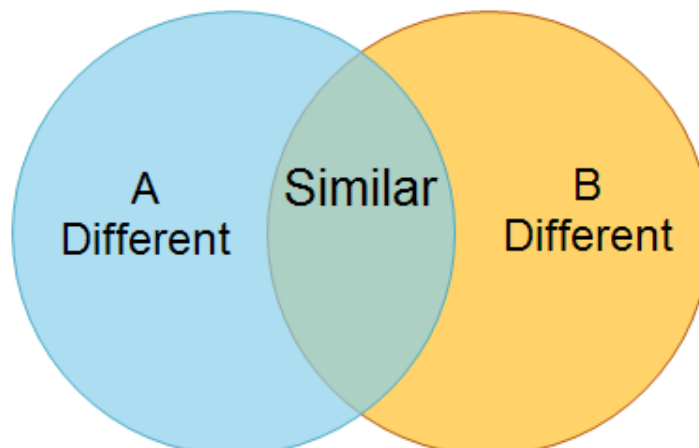
uses drawings and arrows to show steps in a process

Scientific Method



Venn diagram

uses overlapping circles to show how things are the same and different



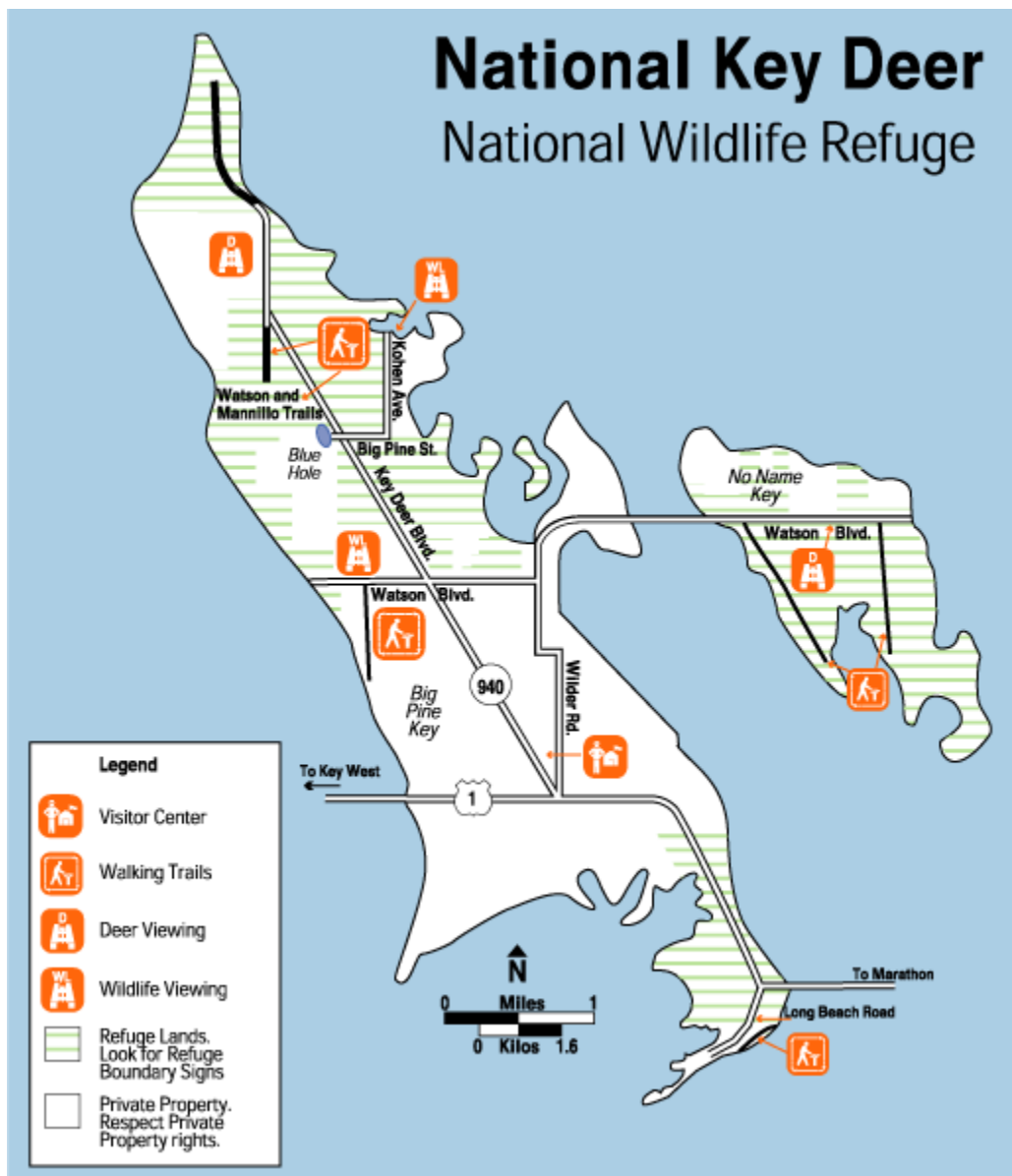
Learning Objective: In writing, SWBAT interpret data from maps with a map key, using academic language.

Map

shows Earth's surface

Map key

list that explains the meanings of abbreviations and symbols on a map



Data Analysis

Check Your Understanding

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1. Which picture shows part of Earth's surface?

The _____ shows part of Earth's surface.

2. What are three kinds of graphs?

Three kinds of graphs are _____ , _____ , and _____ .

3. What are seven ways to show data?

Seven ways to show data are _____ , _____ , _____ , _____ , _____ , _____ , and _____ .

4. How are bar graphs and line graphs the same? How are they different?

Bar graphs and line graphs are the same because they both _____ . They are different because bar graphs _____ and line graphs _____ .

Learning Objective:

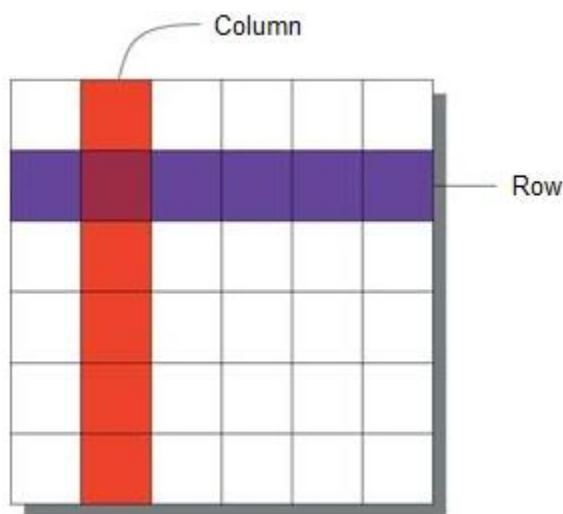
In writing, SWBAT differentiate between rows and columns in a data table, and explain the meaning of percentage using academic language.

Rows

go across horizontally on a table

Columns

a vertical section that is read downward on a table



Data Analysis Science Skill

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1. What is the average temperature in June?

The average temperature in June is _____

2. Which month was the hottest?

The hottest month was _____

3. Which month was the coldest?

The coldest month was _____

Pie chart	shows a circle divided into parts
	A pie chart is used to compare the size of the parts
	The parts add up to 100 or 100%
Percentage	an amount out of 100

Data Analysis

Check Your Understanding

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- What is a row? What is a column?
*A row _____ .
A column is a _____*
- When was the rainfall more than 200 mm?
When was the rainfall the lowest?
The rainfall was more than 200 mm in _____ and _____ . Rainfall was the lowest in _____ and _____ .
- What percentage of the fresh water is groundwater? What is the smallest slice?
_____ % of the fresh water is groundwater. The smallest slice is _____ .
- What kind of graph could you use to show your results?
You could use a _____ to show your results.